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Notice of Allowability

Application No.

10/630,877

Applicant(s)

WATANABE, SHINJI

Examiner

Xuong M. Chung-Trans

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed August 29/2005.
2. ☒ The allowed claim(s) is/are 1-4, 6-9, 11 and 13.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413)
Paper No./Mail Date <u>9/08</u> |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Leighton Chong on Friday September 9, 2005.

3. The application has been amended as follows:

Please replace all prior versions and listings, of claims in the application with the listing of claims as follows:

1. In a coaxial connector comprising:
a contact whose one end has a signal terminal that comes into contact with a conductive pad on a circuit board and is electrically connected with a contact of a corresponding connector,
an insulator that holds said contact, and
a metallic shell that contains said insulator and has ground terminals,
said coaxial connector being characterized in that:

at least three ground terminals that land on ground pads mounted on said circuit board are arranged around a circle centered on said shell, said ground terminals having outward ends that extend outwardly from the shell further than said signal terminal, and said signal terminal being placed in a position within imaginary lines defined by the outward ends of said ground terminals .

2. In a coaxial connector comprising:

a contact whose one end has a signal terminal that comes into contact with a conductive pad on a circuit board and is electrically connected with a contact of a corresponding connector, an insulator that holds said contact, and a metallic shell that contains said insulator and has ground terminals, said coaxial connector being characterized in that: said metallic shell is shaped cylindrically with a circular bottom end and the bottom end of said shell is a ground terminal to be connected to and grounded with a ground pad of the circuit board and is provided with cuts with certain intervals in between whose depth in the bottom end of the shell is designed to be approximately the same thickness as tin to be soldered therein.

3. In a coaxial connector mentioned in Claim 1, said coaxial connector being characterized in that said contact has a substantially U shaped contact section that electrically connects with a contact of a corresponding connector and a terminal section that extends across a central bottom end of said contact section, an end of said terminal section opposite to said signal terminal is a terminal plunge-in part that is plunged into

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an insert cavity formed in said insulator and said terminal plunge-in part can be plunged in substantially perpendicularly to the inner surface of said insulator.

4. In the coaxial connector mentioned in Claim 3, a coaxial connector being characterized in that said terminal section is flat and whose bottom surface can be attached to said circuit board without any gap.

Claim 5. Canceled

6. In a ground pad on which a coaxial connector mentioned in Claim 1 is mounted, a ground pad being characterized in that a ground pad that is formed on said circuit board is substantially square shaped or U shaped.

7. In the ground pad mentioned in Claim 6 on which a coaxial connector is mounted, a ground pad being characterized in that at least the comers on the outer perimeter of said ground pad are obtusely beveled or rounded.

8. In the coaxial connector mentioned in Claim 2, said coaxial connector being characterized in that said contact has a substantially U shaped contact section that electrically connects with a contact of a corresponding connector and an terminal section that extends across the central bottom end of said contact section, an end of said terminal section opposite to said signal terminal is a terminal plunge-in part that is

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plunged into an insert cavity formed in said insulator and said terminal plunge-in part can be plunged in substantially perpendicularly to the inner surface of said insulator.

9. In a ground pad on which a coaxial connector mentioned in Claim 2 is mounted, a ground pad being characterized in that a ground pad that is formed on said circuit board is substantially square shaped or U shaped.

Claim 10. Canceled

11. In a ground pad on which a coaxial connector mentioned in Claim 2 is mounted, a ground pad being characterized in that a ground pad that is formed on said circuit board is substantially square shaped or U shaped.

Claim 12. Canceled

13. In the ground pad mentioned in Claim 11 on which a coaxial connector is mounted, a ground pad being characterized in that at least the corners on the outer perimeter of said ground pad are obtusely beveled or rounded.

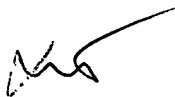
Claim 14. Canceled.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xuong M. Chung-Trans whose telephone number is (571) 272-2002. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571) 272-2800 extension 33.. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



X. Chung-Trans



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